

Michael Krumpelt

Argonne National Laboratory
Chemical Sciences and Engineering Division
9700 South Cass Avenue, Building 205
Argonne, IL 60439
phone: 630/252-8520, fax: 630/972-4176
e-mail: krumpelt@anl.gov

Professional Experience

- **1978-Present.** Argonne National Laboratory
 - 2002-Present. Leader and Senior Scientist, solid oxide fuel cells
 - 1992-2002. Manager and Senior Scientist, fuel cell technology department
 - 1986-1992. Group Leader, fuel cell materials development
 - 1982-1992. Group Leader, systems analysis group
 - 1978-1982. Program Manager, Industrial Fuel Cell Contracts
- **1972-1978.** Group Leader, electrolytic membrane cell development, BASF Corporation
- **1966-1973.** Staff Member, Argonne National Laboratory

Research Experience

- Fuel cell materials and processes
- Fuel processing and catalysis
- Electrochemistry
- Systems analysis
- Technology assessment

Related Publications

- "Activity and Structure of Perovskites as Diesel Reforming Catalysts for Solid Oxide Fuel Cells," *Int. J. Appl. Ceram. Technol.* 4, 3001-3007 (2005).
- M. Krumpelt, J. T. Krause, J. D. Carter, J. P. Kopasz, and S. Ahmed, "Fuel Processing for Fuel Cell Systems in Transportation and Portable Power Applications," *Catalysis Today*, 77, 3-16, (2002).
- Water Balance in Polymer Electrolyte Fuel Cell Systems, *J Power Sources*, 112, 519-530, (2002).
- Oxygen Ion Conducting Materials, U. S. patent 6 916 570 (2005) J. Vaughney, M. Krumpelt, X. Wang, and J. D Carter.
- Method for Generating Hydrogen for Fuel Cells, U. S. patent 6 713 040, S. Ahmed, S. H. Lee, J. D. Carter, and M. Krumpelt.

Education

- PhD, Physical Chemistry, University of Braunschweig, Germany, 1966
- MS, Inorganic Chemistry, University of Munich, Germany, 1963
- BS, Chemistry, University of Braunschweig, Germany, 1963

Awards

- I-R 100 award
- Department of Energy Achievement Award
- Director's Pacesetter Award

Publications & Patents

- 200+ papers and reports
- 25+ patents